WHAT IS CLAIMED IS:

1. An information retrieving system for retrieving design/manufacturing information of a great variety of file formats registered in a plurality of web servers, by using an index server, said information retrieving system comprising:

a transmitting unit that transmits an abstract and storage location information of design/manufacturing information registered in said web servers, to an index server during an idle time of the web servers; and

an automatic registering unit that automatically registers an abstract and storage location information transmitted from said web servers by said transmitting unit, into said index server.

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The information retrieving system according to claim

wherein said transmitting unit is a register processing agent that transmits an abstract and storage location information of the design/manufacturing information.

- 3. The information retrieving system according to claim
- 2,
- wherein said transmitting unit includes,

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an abstract generating unit that generates an abstract of the design/manufacturing information;

a storage location information generating unit that generates storage location information showing a storage location of the design/manufacturing information; and

an information transmitting unit that transmits an abstract generated by said abstract generating unit and storage location information generated by said storage location information generating unit respectively, to said index server during an idle time of said web servers.

The information retrieving system according to claim
 3,

wherein said abstract generating unit converts the

15 design/manufacturing information into a text, and then

converts this text into an XML format, thereby to generate

an abstract of the text and the XML format.

5. The information retrieving system according to claim 20 3,

wherein said storage location information generating unit generates URLs as addresses of said web servers on the Internet.

The information retrieving system according to claim
 3,

wherein said information transmitting unit further includes,

- by said abstract generating unit and storage location information generated by said storage location information generated by said storage location information generating unit, and transmits the abstract and the storage location information stored in the first repository to said index server during an idle time of said web servers.
 - 7. The information retrieving system according to claim 2.

wherein said automatic registering unit is a registration accept processing agent that automatically registers the abstract and the storage location information transmitted from said web servers by said transmitting unit, to said index server.

20 8. The information retrieving system according to claim 7,

wherein said automatic registering unit includes, a second repository that stores an abstract and storage location information of the design/manufacturing information that have been transmitted from said

transmitting unit;

a storage unit that stores the abstract and the storage location information of the design/manufacturing information into the second repository during an idle time of said index server;

an ontology restructuring unit that restructures the consistency of the ontology of a hierarchical structure relating to the design/manufacturing information; and

a posting unit that posts to said web servers a message

that an abstract and storage location information of the

design/manufacturing information have been stored in said

second repository.

9. The information retrieving system according to claim 15 8,

wherein the abstract and the storage location information of the design/manufacturing information are transferred between said first repository and said second repository by inter-repository communications.

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10. The information retrieving system according to claim 1, further comprising an overview unit that has a bird's-eye view of the design/manufacturing information based on an abstract and storage location information of the design/manufacturing information registered in said index

server.

- 11. The information retrieving system according to claim
 1, further comprising a retrieving unit that retrieves
 design/manufacturing information based on an abstract and
 storage location information of the design/manufacturing
 information registered in said index server.
- 12. An information retrieving method for retrieving design/manufacturing information of a great variety of file formats registered in a plurality of web servers, by using an index server, the information retrieving method comprising:
- a transmission step of transmitting an abstract and

 15 storage location information of design/manufacturing

 information registered in said web servers, to an index

 server during an idle time of said web servers; and

an automatic registration step of automatically registering an abstract and storage location information transmitted from web servers by said transmitting unit, into said index server.

- 13. The information retrieving method according to claim
 12,
- 25 wherein the transmission step is a step at which a

register processing agent transmits an abstract and storage location information of the design/manufacturing information.

5 14. The information retrieving method according to claim 13,

wherein the transmission step includes,

an abstract generation step of generating an abstract of the design/manufacturing information;

a storage location information generation step of generating storage location information that shows a storage location of the design/manufacturing information; and

an information transmission step of transmitting an abstract generated at the abstract generation step and storage location information generated at the storage location information generation step, to said index server during an idle time of said web servers.

15. The information retrieving method according to claim 20 14,

wherein the abstract generation step is for converting the design/manufacturing information into a text, and then converting this text into an XML format, thereby to generate an abstract of the text and the XML format.

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16. The information retrieving method according to claim
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wherein the storage location information generation step is for generating URLs as addresses of said web servers on the Internet.

17. The information retrieving method according to claim
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wherein the information transmission step further 10 includes,

a storage step of storing into a first repository an abstract generated at the abstract generation step and storage location information generated at the storage location information generation step respectively,

wherein, at the information transmission step, the abstract and the storage location information stored in the first repository are transmitted to said index server during an idle time of said web servers.

20 18. The information retrieving method according to claim 13,

wherein the automatic registration step is a step at which a registration accept processing agent automatically registers the abstract and the storage location information transmitted from said web servers at the transmission step,

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to said index server.

The information retrieving method according to claim
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wherein the automatic registration step includes,
a storage step of storing an abstract and storage
location information of the design/manufacturing
information into a second repository during an idle time
of said index server;

an ontology restructuring step of restructuring the consistency of the ontology of a hierarchical structure relating to the design/manufacturing information; and

a posting step of posting to said web servers a message that an abstract and storage location information of the design/manufacturing information have been stored in the second repository.

- 20. The information retrieving method according to claim
 19,
- wherein the abstract and the storage location information of the design/manufacturing information are transferred between the first repository and the second repository by inter-repository communications.

- 21. The information retrieving method according to claim 12, further comprising an overview step of having a bird's-eye view of the design/manufacturing information based on an abstract and storage location information of the design/manufacturing information registered in said index server.
- 22. The information retrieving method according to claim 12, further comprising a retrieval step of retrieving design/manufacturing information based on an abstract and storage location information of the design/manufacturing information registered in said index server.
- 23. An information retrieving method for retrieving design/manufacturing information of a great variety of file formats registered in a plurality of web servers, by using an index server, the information retrieving method comprising:

a transmission step of transmitting an abstract and

20 storage location information of design/manufacturing
information registered in said web servers, to an index
server during an idle time of said web servers; and

an automatic registration step of automatically registering an abstract and storage location information transmitted from web servers by said transmitting unit, into

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said index server,

wherein the information retrieving method is automatically carried out when registered information is dropped onto a registration icon prepared at the registration side.

24. An information retrieving method for retrieving design/manufacturing information of a great variety of file formats registered in a plurality of web servers, by using an index server, the information retrieving method comprising:

a transmission step of transmitting an abstract and storage location information of design/manufacturing information registered in said web servers, to an index server during an idle time of said web servers; and

an automatic registration step of automatically registering an abstract and storage location information transmitted from web servers by said transmitting unit, into said index server,

wherein registered design/manufacturing information is managed in a repository based on a given drawing number system, and

when there is no suitable drawing number given, a drawing number of the registered information is automatically generated from a drawing number or an abstract

in a higher-order system.

- 25. The information retrieving method according to claim 25, wherein an allocation of a flow diagram and a material of an IDEF based on a work process diagram at a retrieving time can be freely selected from a menu of the drawing number system.
- 26. An information retrieving method for retrieving design/manufacturing information of a great variety of file formats registered in a plurality of web servers, by using an index server, the information retrieving method comprising:

a transmission step of transmitting an abstract and storage location information of design/manufacturing information registered in said web servers, to an index server during an idle time of said web servers; and

an automatic registration step of automatically registering an abstract and storage location information transmitted from web servers by said transmitting unit, into said index server,

wherein CAD design/manufacturing information such as a structure diagram or a circuit diagram of the ICAD-MX is converted into text information, thereby to automatically generate an abstract.

- 27. A computer-readable recording medium recorded with a program for retrieving design/manufacturing information of a great variety of file formats registered in a plurality of web servers, by using an index server,
- the recording medium being recorded with a program comprising:

a transmission step of transmitting an abstract and storage location information of design/manufacturing information registered in said web servers, to an index server during an idle time of said web servers; and

an automatic registration step of automatically registering an abstract and storage location information transmitted from web servers by said transmitting unit, into said index server.

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